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Sir:
Transmitted herewith for filing is the Patent Application of:
Inventors: Toru Asano, Sang Hoo Dhong, Takaaki Nakazato, and Osamu Takahashi
For: Apparatus and Method of Worldling/Bitline Redundancy Control Using Shift Registers in an SPRAM
Assignee Name: International Business Machines Corporation
Assignee Residence: Armonk, New York
Assignee Name: Toshiba America Electronic Components, Inc
Assignee Residence: Irvine, California
Assignee Name: Kabushiki Kaisha Toshiba
Assignee Residence: Tokyo, Japan

Enclosed are:
☒ 10 Patent Specification including an Abstract
☒ 4 Pages of Claims
☒ 2 Sheet(s) of drawings. ☐ Informal ☒ Formal
☒ 2 Declaration(s) and Power of Attorney
☒ Form PTO 1595 and Assignment of the Invention to IBM Corporation
☒ Form PTO 1595 and Assignment of the Invention to Toshiba America Electronic Components
☒ Form PTO 1595 and Assignment of the Invention to Kabushiki Kaisha Toshiba
☒ A certified copy of a application.
☐ Information Disclosure Statement, PTO 1449 and copies of references.

The filing fee has been calculated as shown below:

FOR	Number Filed	Number Extra	Rate	Basic Fee \$750.00
Total Claims	20	0	X \$ 18	= \$ 00.00
Independent Claims	3	0	X \$ 84	= \$ 00.00
Multiple Dependent Claims	00		X \$280	=
Total Filing Fee				= \$ 750.00

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☒ Any additional filing fees required under 37 CFR 1.16.

☒ Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

By 
Robert M. Carwell
Registration No. 28,499
Intellectual Property Law Dept.
IBM Corporation
11400 Burnet Road
Austin, Texas 78758
Telephone (512) 823-1017